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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/291,538	09/291,538 04/14/1999		HIDENORI ÖĞÂTA	005586/D8326	2245
26021	7590	03/10/2003			
HOGAN & HARTSON L.L.P.				EXAMINER	
500 S. GRAND AVENUE SUITE 1900 LOS ANGELES, CA 90071-2611				WILCZEWSKI, MARY A	
				ART UNIT	PAPER NUMBER
				2822	
			DATE MAILED: 03/10/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

Offic Action Summary

Application No. **09/291,538**

Applicant(s)

Ogata et al.

Examiner

Mary Wilczewski

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE THREE (3) MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later then three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on Dec 27, 2002 2a) X This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213. Disposition of Claims is/are pending in the application. 4) X Claim(s) 9-11 4a) Of the above, claim(s) ______ is/are withdrawn from consideration. 5) Claim(s) ______ is/are allowed. 6) Claim(s) 9-11 is/are rejected. is/are objected to. 7) Laim(s) are subject to restriction and/or election requirement. 8) Claims **Application Papers** 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on ______ is/are a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) ☐ Some* c) ☐ None of: 1. Certified copies of the priority documents have been received. 2. X Certified copies of the priority documents have been received in Application No. 08/911,505 3.
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). a) The translation of the foreign language provisional application has been received. 15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 4) Interview Summary (PTO-413) Paper No(s). 1) Notice of References Cited (PTO-892) 5) Notice of Informal Patent Application (PTO-152) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s).

6) Other:

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DETAILED ACTION

This Office action is in response to Amendment B filed on December 27, 2002.

Drawings

The drawings filed on April 14, 1999, have been objected to by the Draftsperson; note the attached form PTO-948.

It is noted that Applicants have submitted eight sheets of photographs. Color photographs and color drawings are acceptable only for examination purposes unless a petition filed under 37 CFR 1.84(a)(2) is granted permitting their use as acceptable drawings. In the event that applicant wishes to use the drawings currently on file as acceptable drawings, a petition must be filed for acceptance of the color photographs or color drawings as acceptable drawings. Any such petition must be accompanied by the appropriate fee set forth in 37 CFR 1.17(h), three sets of color drawings or color photographs, as appropriate, and an amendment to the first paragraph of the brief description of the drawings section of the specification which states:

The patent or application file contains at least one drawing executed in color. Copies of this patent or patent application publication with color drawing(s) will be provided by the U.S. Patent and Trademark Office upon request and payment of the necessary fee.

Color photographs will be accepted if the conditions for accepting color drawings have been satisfied.

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Priority

Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119 (a)-(d). The certified copy has been filed in parent Application No. 08/911,505, filed on August 14, 1997.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kamiya et al., the article entitled "Excimer Laser Annealing SLA3600", in view of Asai et al., U.S. Patent 5,365,875, or Kudo, U.S. Patent 5,496,768, or Noguchi et al., U.S. Patent 5,529,951.

Kamiya et al. disclose a thin film transistor having a polycrystalline silicon layer formed by a laser annealing technique in which the optical profile of the laser beam in the width direction is tapered and smoothed, see pages 1 and 2 of the English-language translation and Figure 2 (Type D). The maximum intensity of the laser beam shown in the intensity Profile Type D in Figure 2 is considered the upper limit energy level at which maximum grain size in the semiconductor layer results. Although Kamiya et al. disclose the use of the disclosed laser crystallization technique to fabricate a polysilicon thin film transistor, Kamiya et al. lack anticipation of fabricating a top-gated

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thin film transistor with the laser crystallized silicon film. Asai et al., Kudo, and Noguchi et al. disclose top-gated thin film transistors having active layers formed by various methods of laser crystallization. (See figures 6(a)-6(F and 7(a)-7(g) or Asai et al., figure 4 of Kudo, and figures 23A-23C of Noguchi et al.) In light of these references, it would have been obvious to one skilled in the art that a top-gated thin film transistor could have been fabricated by the laser crystallization technique of Kamiya et al.

The present claims are product-by-process claims, hence, the instant claims are directed to the product per se, no matter how actually made. Applicant has merely chosen to define the claimed product by the process by which it was made. Even though product-by-process claims are limited by and defined by the process, determination of patentability is based upon the product itself. The patentability of a product does not depend on its method of production. If the product in a product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior art product is made by a different process. *In re Thorpe* 227 USPQ 964, 966 (Fed. Cir. 1985). Process limitation are significant only to the extent that they distinguish the claimed product from that of the prior. In this application the instant claims are directed to a transistor having a polycrystalline silicon layer. Burden is on Applicant to specifically point out how their laser annealing process materially distinguishes the polysilicon layer of the present claims from that of the applied prior art.

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Response to Arguments

Applicant's arguments with respect to claims 9-11 have been considered but are moot in

view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is

reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR

1.136(a) will be calculated from the mailing date of the advisory action. In no event, however,

will the statutory period for reply expire later than SIX MONTHS from the date of this final

action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Wilczewski whose telephone number is (703) 308-2771.

M. Wilczewski

Primary Examiner Tech Center 2800

MW March 6, 2003